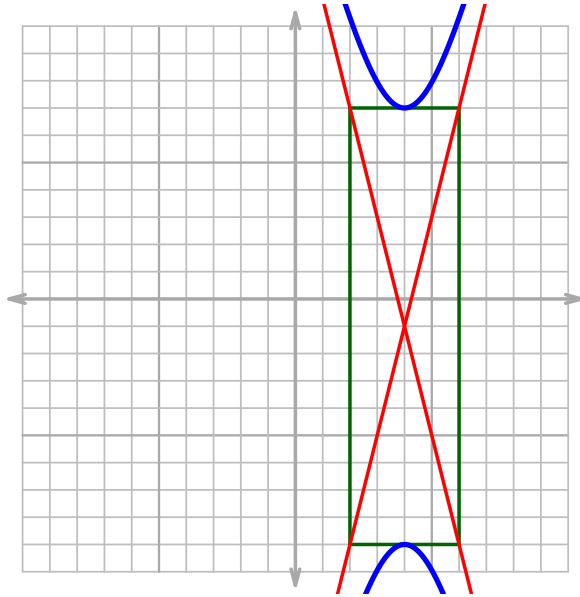


Question 1

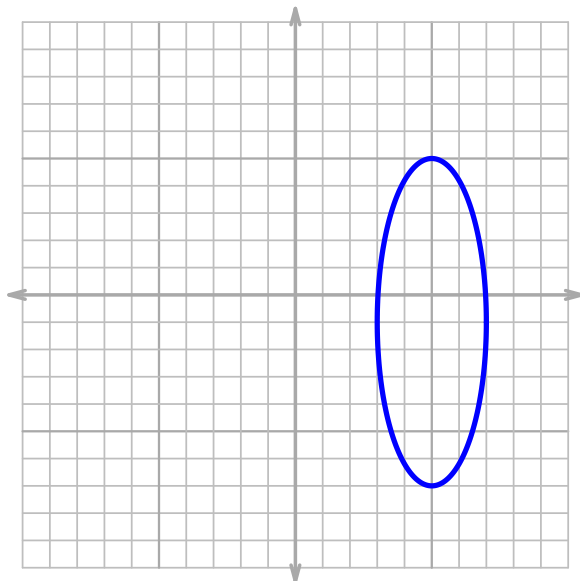
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$-\frac{(x-4)^2}{4} + \frac{(y+1)^2}{64} = 1$$

Question 2

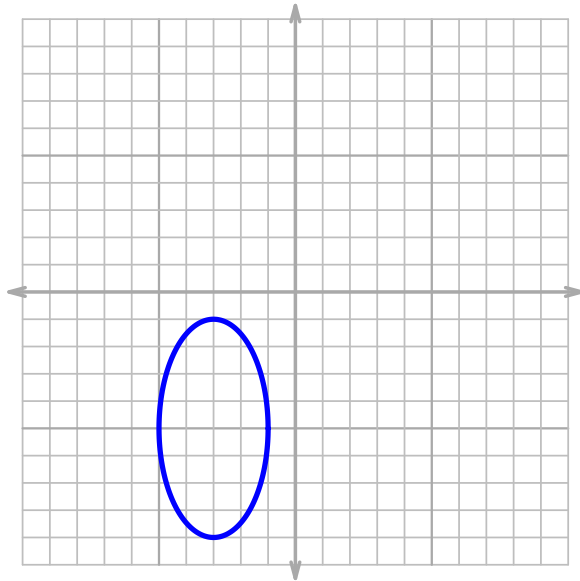
Please write the equation of the conic section graphed below. You can assume all vertices and co-vertices are on integer gridpoints.



$$\frac{(x-5)^2}{4} + \frac{(y+1)^2}{36} = 1$$

Question 3

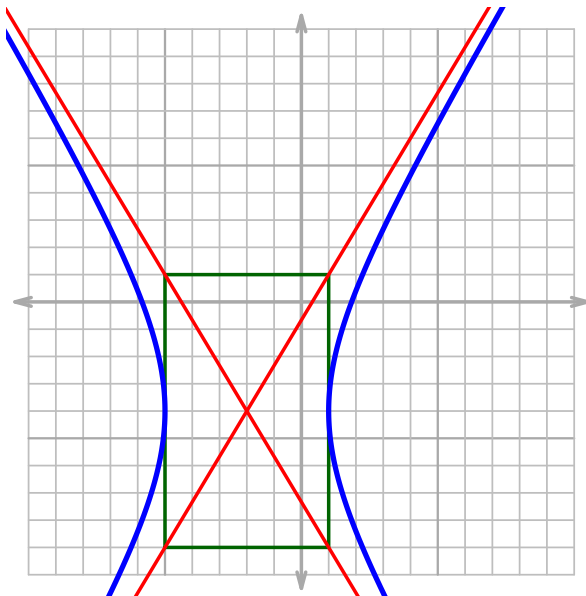
Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x+3)^2}{4} + \frac{(y+5)^2}{16} = 1$$

Question 4

Graph the conic section represented by the equation. For a hyperbola, please include the central rectangle and the asymptotes.



$$\frac{(x+2)^2}{9} - \frac{(y+4)^2}{25} = 1$$